

CLAIMS

1. A thin battery comprising a battery module and an outer case for housing the battery module,
5 wherein the outer case includes a first case body and a second case body,
 the first case body and the second case body include connection walls for connecting the first case body and the second case body to each other on outer circumferential portions,
10 at least one selected from the first case body and the second case body includes a dish-shaped case element with a housing portion swelling from one surface and a reinforcing frame fixed to the case element along a circumference of a swelling wall of the housing portion,
 the battery module is housed in the housing portion, and
15 the battery module is sealed in the outer case by attaching the connection wall of the first case body to the connection wall of the second case body.
2. The thin battery according to claim 1, wherein the reinforcing frame is
20 made of a plastic molding, the case element is a press-formed product made of a metal thin plate, and the case element is formed so as to be integrated with the reinforcing frame.
3. The thin battery according to claim 1, wherein a mounting region further
25 is formed on an outer surface of the connection wall adjacent to the swelling wall of the housing portion, and the mounting region includes a control module for the battery module and a cover for protecting the control module.
4. The thin battery according to claim 3, wherein the control module
30 includes a protection circuit, output terminals and input terminals; and a pair of the input terminals of the control module are connected to be fixed to a positive tab and a negative tab of the battery module led to the mounting region, whereby the control module is fixed to the mounting region.
- 35 5. The thin battery according to claim 3, wherein the outer case is formed in a rectangular card shape, the mounting region is provided on one side of the outer case, the cover includes a principal plane wall covering an outer surface

of the control module and a pair of leg chips projecting from both ends of the principal plane wall, and terminal windows for exposing the output terminals of the control module are opened in the principal plane wall.

5 6. The thin battery according to claim 1, wherein a concave portion for preventing reverse insertion further is formed on one side of the outer case, and the concave portion is engaged with a convex portion for preventing reverse insertion provided in a battery insertion portion of an apparatus in which the battery is to be mounted.

10

7. The thin battery according to claim 1, wherein a concave portion for preventing dropping further is formed on one side of the outer case, and the concave portion is engaged with the convex portion for preventing dropping provided in an apparatus in which the battery is to be mounted.

15